Appl. No.

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AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application. Applicants have amended Claim 20 as follows:

- 1. (Original) A biomaterial comprising:
 - a collagen-based biological tissue from a mammal; and
- a plurality of cross-linking bonds between the tissue and one or more polyepoxy compounds.
- 2. (Original) The biomaterial of Claim 1, wherein the biomaterial is substantially decelluralized.
- 3. (Original) The biomaterial of Claim 1, wherein the biomaterial is substantially free from cells of the mammal.
- 4. (Original) The biomaterial of Claim 1, wherein the biomaterial is substantially free from debris of cells of the mammal.
- 5. (Original) The biomaterial of Claim 1, wherein a surface of the biomaterial is coated with a cryoprotective material.
- 6. (Original) The biomaterial of Claim 1, wherein the biomaterial is in a freezedried form.
- 7. (Original) The biomaterial of Claim 1, wherein the collagen-based biological tissue is from fascia, amnion, placenta or skin of a mammal.
- 8. (Original) The biomaterial of Claim 1, wherein the one or more polyepoxy compounds comprise a backbone of 17-25 carbon atoms and 4-5 epoxy groups.
- 9. (Original) The biomaterial of Claim 1, wherein the one or more polyepoxy compounds are selected from the group consisting of polyglycerol polyglycidyl ether, polyethylene glycol glycidyl ether and a mixture of the foregoing.
- 10. (Original) The biomaterial of Claim 1, wherein the tissue comprises a helical structure of polypeptides.
- 11. (Original) The biomaterial of Claim 1, wherein the plurality of cross-linking bonds are between the one or more polyepoxy compounds and one or more amino acids of the tissue.
- 12. (Original) The biomaterial of Claim 1, wherein the biomaterial is in the form of powder.

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- 13. (Original) The biomaterial of Claim 1, wherein the collagen-based biological tissue comprises a bovine placental tissue or porcine skin tissue.
 - 14. (Original) A method of using a biomaterial, the method comprising: providing the biomaterial of Claim 1; and applying the biomaterial to a human or animal body part in need thereof.
- 15. (Original) The method of Claim 14, wherein the biomaterial is in a powder form.
- 16. (Original) The method of Claim 15, wherein the powder has a size from about $100 \ \mu m$ to about $500 \ \mu m$.
- 17. (Original) The method of Claim 15, wherein the application of the biomaterial comprises injecting into the body party a mixture comprising the powder in a liquid.
- 18. (Original) The method of Claim 17, wherein the powder in the mixture has a concentration of from about 400 mg/ml to about 500 mg/ml.
 - 19. (Original) The method of Claim 17, wherein the liquid is PBS.
 - 20. (Currently Amended) A method of providing a biomaterial, comprising: providing a collagen-based biological tissue from a mammal; and cross-linking the tissue using one or more polyepoxy compounds, thereby providing the biomaterial of Claim 1.
- 21. (Original) The method of Claim 20, further comprising removing cells from the tissue.
- 22. (Original) The method of Claim 20, further comprising destroying cells from the tissue.
- 23. (Original) The method of Claim 22, further comprising removing debris of the destroyed cells from the tissue.
- 24. (Original) The method of Claim 20, further comprising freeze-drying the tissue after the removal of cells.
- 25. (Original) The method of Claim 24, further comprising pulverizing the freeze-dried tissue.
- 26. (Original) The method of Claim 25, wherein the pulverization is conducted in a pulverizer under an environment of liquid nitrogen.

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- 27. (Original) The method of Claim 24, further comprising hydrating the freezedried tissue.
- 28. (Original) The method of Claim 28, further comprising cutting the hydrated tissue.
- 29. (Original) The method of Claim 20, further comprising coating a cryoprotective material over the tissue after the removal of cells.
- 30. (Original) The method of Claim 29, wherein the cryoprotective material comprises hyaluronic acid.
- 31. (Original) The method of Claim 20, wherein the collagen-based biological tissue is fascia, amnion, placenta or skin of a mammal.
- 32. (Original) The method of Claim 20, wherein the one or more polyepoxy compounds comprise a backbone of 17-25 carbon atoms and 4-5 epoxy groups.
- 33. (Original) The method of Claim 20, wherein the one or more polyepoxy compounds are polyglycerol polyglycidyl ether, polyethylene glycol glycidyl ether or a mixture of the foregoing.
- 34. (Original) The method of Claim 20, wherein the tissue comprises a helical structure of polypeptides.
- 35. (Original) The method of Claim 20, wherein the polyepoxy compound reacts with one or more amino acid to form a cross-linking bondage.
- 36. (Original) The method of Claim 20, wherein the cross-linking comprises treating the biological tissue with 1-7%(w/v) of the one or more polyepoxy compounds.
- 37. (Original) The method of Claim 20, wherein the cross-linking comprises treating the biological tissue with the one or more polyepoxy compounds at a pH from about 8 to about 11.
- 38. (Original) The method of Claim 20, wherein the cross-linking comprises treating the biological tissue with the one or more polyepoxy compounds at a temperature from about 30 to about 45°C.
- 39. (Original) The method of Claim 20, wherein the cross-linking comprises treating the biological tissue with the one or more polyepoxy compounds for about 10 to 20 hours.
 - 40. (Original) A biomaterial for tissue repair produced by the method of Claim 20.